<u>CLAIMS</u>

This listing of claims will replace all prior versions and listings of claims in the

application.

Listing of Claims:

1. (Currently Amended): A method, comprising:

displaying a currently displayed television program on a display;

providing activating a navigation system during display of the currently displayed

television program, wherein the navigation system determines and displays a set of

viewer-selectable attributes for the currently displayed television program overlaid on

the currently displayed television program, the set of attributes comprising attributes

which are each descriptive of a different aspect of a-the currently displayed television

program, wherein each attribute of the set of viewer-selectable attributes corresponds to

a combinable navigation context to generate a navigable sequence of television

programs;

selecting at least two attributes from the set of viewer-selectable attributes using

one or more of three navigation keys comprising a previous key, a next key and a select

key;

logically combining the navigation contexts which correspond to the selected at

least two attributes using Boolean operators;

querying a database of television programming metadata for television program

identifiers associated with the combined navigation contexts;

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generating at least one a sequence of television programs associated with the identifiers for navigation wherein each of the at least one sequence comprises a corresponding navigational axis, the sequence of television programs including the current television program and at least one other television program that shares one or more of the selected attributes with the currently displayed television program; and

navigating the at least one sequence of television programs, wherein the navigating comprises using a multi-axis navigation control the next key or previous key to change from playing an on-demand program or a displaying the currently broadcast currently displayed television program in the at least one sequence to playing displaying another on-demand television program or another currently broadcast program in the at least one sequence, wherein the next key or previous key is used to cycle through the sequence of television programs without having to access a menu listing the television programs in the sequence for navigating to display of a next television program in the sequence.

- 2. (Original): The method as recited in claim 1, wherein the querying is performed by one or more predefined queries and each predefined query is associated with a combinable navigation context.
- 3. (Previously Presented): The method as recited in claim 1, wherein the set of attributes includes an actor attribute and a director attribute, and wherein logically combining the navigation contexts which correspond to the selected attributes

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comprises logically combining navigation contexts which correspond to the actor

attribute and the director attribute to generate a single actor-director navigational axis.

4. (Original): The method as recited in claim 2, wherein links for launching the one or

more predefined queries are associated with television program content.

5. (Original): The method as recited in claim 4, wherein the television program content

is included in a conventional broadcast television show.

6. (Original): The method as recited in claim 4, wherein the television program content

is included in one of an on-demand television show or an on-demand television movie.

7. (Original): The method as recited in claim 4, wherein the television program content.

is included in television musical programming.

8. (Original): The method as recited in claim 4, wherein a link is selectable while the

television program content is playing.

9. (Original): The method as recited in claim 2, wherein links for launching the one or

more predefined queries are associated with television program metadata.

10. (Original): The method as recited in claim 9, wherein a link is selectable while the

television program metadata is displayed.

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11. (Canceled)

12. (Currently Amended): The method as recited in claim—11_1, wherein the select key

of the navigation controls selects one or more of the combinable navigation contexts.

13. (Original): The method as recited in claim 12, further comprising using at least one

of the combinable navigation contexts as a logical filter.

14. (Canceled)

15. (Previously Presented): The method as recited in claim 1, wherein the Boolean

operators are applied automatically based on an association between a link for

launching a predefined query corresponding to a navigation context and the television

program content associated with the link.

16. (Previously Presented): The method as recited in claim 1, wherein the Boolean

operators are applied automatically based on an association between a link for

launching a predefined query corresponding to a navigation context and the television

program metadata associated with the link.

17. (Canceled)

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18. (Currently Amended): A method, comprising:

displaying a currently displayed television program on a display;

activating a navigation system during display of the currently displayed television program, wherein the navigation system automatically determines and displays a set of viewer-selectable attributes that are descriptive of different aspects of the currently displayed television program, wherein the navigation system overlays the set of viewer-selectable attributes on the currently displayed television program;

attributes to define defining multiple queries a query for television programming metadata, wherein the multiple queries are logically combined using Boolean logic operators, wherein each query the navigation system uses the selected one or more attribute values from a corresponding to the currently displayed television program in the query context from which the query was launched to produce a list of television program identifiers associated with identified by the navigation system as corresponding to the selected one or more attribute values, and wherein the one or more attribute values are selected by a viewer from among a set of attribute values which are each descriptive of a different aspects of a television program;

arranging the television programming metadata into a data structure wherein attribute values are associated with program identifiers;

providing a user interface, wherein a navigation control selects whether is used to launch the query and if launched, designates by selecting the one or more attribute values from the displayed set of viewer-selectable attributes corresponding to the currently displayed television program-context;

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when the query is launched, using the navigation control to access a different

television program than the currently-displayed television program, the different

television program accessed associated with corresponding to the list, wherein the

television program comprises a television program selected from a group consisting of

on-demand television programs and currently broadcast television programs; and

displaying the different television program in response to the navigation control

accessing the different television program; and

during display of the different television program, activating the navigation

system, wherein the navigation system automatically determines and displays a

different set of viewer-selectable attributes that are descriptive of the different television

program, wherein the navigation system overlays the different set of viewer-selectable

attributes on the display of the different television program, wherein one or more of the

different attributes is selected to create a new list of television program identifiers

corresponding to the selected one or more different attributes.

19. (Currently Amended): The method as recited in claim 18, wherein the <u>navigation</u>

control comprises a next key, a previous key and a select key, wherein the next key or

previous key is used to cycle through the television programs corresponding to the list

without having to access a menu listing the television programs in the list for navigating

to a next television program in the listtelevision program context is a television program

currently being displayed.

20. - 23. (Canceled)

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- 24. (Currently Amended): The method as recited in claim 18, further comprising displaying program information for each television <u>program</u> in response to the navigation control accessing the television program.
- 25. (Previously Presented): The method as recited in claim 18, further comprising: pausing a first television program at a pause point in response to the navigation control accessing a second television program on the list; and

resuming the first television program at the pause point in response to the navigation control accessing the first television program.

26. (Canceled)

- 27. (Currently Amended): The method as recited in claim 18, <u>further comprising</u> selecting multiple attribute values, wherein the multiple attribute values combined in the <u>query using Boolean logic operators</u>, wherein the Boolean logic operators are applied automatically based on an association between a link for launching a predefined query corresponding to a navigation context and the television program content associated with the link.
- 28. (Currently Amended): The method as recited in claim 27, wherein the Boolean operators are designated by a context of the currently displayed television program context.

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29. (Currently Amended): A multi-axis television navigation system, comprising:

a server for storing and accessing digital television programming content;

a navigation control for navigating any one of multiple navigational axes to

change from displaying of a currently playing-displayed television program to displaying

ef-a television program provided by the server, and for selecting links to launch

predefined queries, wherein each predefined query queries a database based on

television program attributes selected by a viewer and returns a navigation axis

comprising a list of program identifiers of television programs corresponding to a value

for the television program attributes selected:

a means for storing television program metadata in a database,

a means for arranging the program metadata in a relational schema,

a means for defining and storing the pre-defined queries;

a means for embedding links to the pre-defined queries in logically associated metadata for a currently playing-displayed television program; and

a means for logically combining multiple predefined queries using Boolean operators.

wherein the navigation system is configured to be activated during the display of the currently displayed television program, wherein the navigation system automatically determines and displays a set of viewer-selectable attributes that are descriptive of different aspects of the currently displayed television program, wherein the navigation system overlays the set of viewer-selectable attributes on the currently displayed television program;

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wherein the navigation system uses one or more selected attribute values

selected from the set of viewer-selectable attributes corresponding to the currently

displayed television program to define one of the predefined queries to produce the list

of television program identifiers;

wherein the navigation controls provide for navigation from the currently

displayed television program to a different television program corresponding to one of

the program identifiers in the list by activation of a single key.

30. (Canceled):

31. (Currently Amended): The multi-axis television navigation system as recited in

claim 29, wherein the navigation control comprises a next key, a previous key and a

select key, wherein the next key or previous key is used to cycle through the television

programs corresponding to the list without having to access a menu listing the television

programs in the list for navigating to a next television program in the sequence-further

comprising a means for selecting more than one link in order to logically combine

multiple predefined queries.

32. (Original): The multi-axis television navigation system as recited in claim 29,

wherein the relational schema adheres at least in part to a global listings format.

33. (Currently Amended): A television navigation engine, executing on a computing

device, the engine comprising:

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a database for television program metadata;

a query engine to find <u>program</u> identifiers in the database corresponding to predefined queries, wherein a predefined query returns a navigational axis from the database, wherein a navigational axis is a list of <u>program</u> identifiers of television programs;

a user interface to associate launch of one or more of the predefined queries with selection of attributes descriptive of a currently playing displayed television program or currently displayed metadata of the television program, and to receive the attributes which are selected by a viewer, wherein activation of the user interface during display of a currently displayed television program results in the user interface presenting a set of viewer-selectable attributes that are descriptive of different aspects of the currently displayed television program, wherein the user interface overlays the set of viewer-selectable attributes on the currently displayed television program for a viewer to select one or more attribute values from the displayed set of viewer-selectable attributes to define a query;

——— a combiner to combine selected attributes using Boolean operators for launching multiple predefined queries;

an axis cache to store the list of <u>program</u> identifiers returned by one or more predefined queries; and

a navigation controller associated with the user interface to select the attribute values from the displayed set of attribute values corresponding to the currently displayed television program for launching the one or more predefined queries, to navigate a navigational axis that is a the list of program identifiers of television programs

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determined to correspond to the one or more predefined queries, and to display television programs corresponding to the program identifiers on the list wherein the television programs comprise television programs selected from a group consisting of on demand programs and currently broadcast programs.

34. (Canceled)

35. (Currently Amended): The television navigation engine as recited in claim 33,

wherein the navigation controller is on a remote controller and comprises a next key, a

previous key and a select key, wherein the next key or previous key is used to cycle

through the television programs corresponding to the list without having to access a

menu listing the television programs in the list for navigating to a next television

program in the list.

36. (Currently Amended): A multi-axis television program system that comprises a

multi-axis database schema implemented by a processor executing instructions stored

in computer readable storage media, the schema comprising:

instructions for arranging a database of television programming metadata into

indices facilitating predefined queries;

wherein one or more links contextually associated with one or more attributes of

a <u>currently displayed</u> television program call the predefined queries, wherein the one or

more attributes have been are selected by a viewer from among a set of attributes and

logically combined using Boolean operators, and wherein each attribute of the set

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corresponds to a combinable navigation context which can be used for generating a

navigable sequence of television programs along a navigational axis, wherein the set of

attributes corresponding to the currently displayed television program are automatically

determined by the processor and displayed as viewer-selectable attributes when a user

interface is activated during display of the currently displayed television program;

wherein the predefined queries return a list of identifiers from the database

corresponding with one or more of the attributes,

wherein each list forms a navigational axis,

wherein each identifier in a list corresponds to either an on-demand or currently

broadcast television program,

wherein the television programs on the list are displayed as accessed by a

television channel navigation means for navigating one or more navigational axes,

wherein the television channel navigation means comprises a next key, a previous key

and a select key, wherein the next key or previous key is used to cycle through the

television programs corresponding to the list without having to access a menu listing the

television programs in the list for navigating to a next television program in the

sequence.

37. (Original): The multi-axis database schema as recited in claim 36, wherein the one

or more attributes include one of: type of program, program title, alphabetical order of

title, year of release, channel, time, first air date, episode order, episode name, genre,

actors, writer, director, producer, rating, sound characteristics, video characteristics.

language, subtitles, closeness of match to search criteria, and popularity.

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38. (Currently Amended): A multi-axis television program system that comprises one or more computer readable media containing instructions that are executable by a computer to perform actions comprising:

defining <u>a</u> television navigation <u>axes_axis_according</u> to attributes of television programs where two_one_or more attributes are logically combined using Boolean operators to form a one of define the navigational <u>axisaxes</u>;

activating a navigation system during display of a currently displayed television program, wherein the navigation system automatically determines and displays a set of viewer-selectable attributes that are descriptive of different aspects of the currently displayed television program, wherein the navigation system overlays the set of viewer-selectable attributes on the currently displayed television program;

receiving a viewer selection of <u>one or more</u> attributes from among a-the <u>displayed</u> set of <u>viewer-selectable</u> attributes, wherein each attribute selected <u>displayed</u> is descriptive of a different aspect of a-the currently playing <u>displayed</u> television program;

having the attributes that defines the axis;

providing a database of television program identifiers associated with the and attributes descriptive of the television programs corresponding to the television program identifiers in the database;

providing a means for selecting and launching the predefined a database query based on the one or more selected attributes corresponding to the currently displayed

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television program, wherein the query returns a list of program identifiers of television programs having the one or more attributes that defines define the axis; and

instructions to cycle through playing the television programs on the list when a user uses a navigation controller for changing television channels that, in turn, navigates along one of the navigational axes axis without having to access a menu listing the television programs in the list for navigating to a next television program in the list wherein the television programs comprise television programs selected from a group consisting of on demand programs and currently broadcast programs.

39. (Canceled)

40. (Currently Amended): A method comprising:

displaying a currently displayed television program on a television;

activating a navigation system during display of the currently displayed television program, wherein the navigation system determines and displays a set of viewer-selectable attributes corresponding to the currently displayed television program, wherein the navigation system overlays the set of viewer-selectable attributes on the currently displayed television program, the set of attributes comprising attributes which are each descriptive of a different aspect of the currently displayed television program; selecting an attribute from the set of view selectable attributes using one or more of three navigation keys comprising a previous key, a next key and a select key;

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querying a database of television program metadata corresponding to television programs based on the selected attribute at least two television program attributes combined using at least one Boolean operator;

receiving results from the querying wherein the results comprise television program identifiers and wherein each of the <u>television program</u> identifiers identifies a television program having the selected attribute in common with the currently displayed television program:

generating a navigational axis for navigating the television programs that correspond to the television program identifiers wherein the navigational axis comprises an axis independent of a future time;

receiving an instruction to change a channel on the television by activation of a single key;

responsive to receipt of the instruction, navigating the navigational axis <u>from</u>

<u>displaying the currently displayed television program</u> to <u>display</u> a different television program located on the navigational axis; and

displaying the different television program on the television;

wherein the playing one of the television programs and the playing the different television program each play an on-demand program, a currently broadcast program or a combination of an on-demand program and a currently broadcast program.

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- 41. (Previously Presented): The method of claim 40 further comprising presenting on the television the navigational axis and at least some information for the television programs that correspond to the television program identifiers.
- 42. (Currently Amended): The method of claim 40 further comprising:

during display of the different television program, activating the navigation

system again, wherein the navigation system automatically determines and displays a

different set of viewer-selectable attributes that are descriptive of the different television

program, wherein the navigation system overlays the different set of viewer-selectable

attributes on the display of the different television program, wherein one or more of the

different attributes is selected to create a new list of television program identifiers

corresponding to the selected one or more different attributes for creating an additional

navigational axis, the additional navigational axis based on results from a different query

based on the one or more different attributes.

43. (Currently Amended): The method of claim 42 wherein a two-dimensional control feature allows for navigation along the navigational axis and the additional navigational axis, the two-dimensional control feature comprising a next key and a previous key, wherein the next key or previous key is used to cycle through the television programs corresponding to the list without having to access a menu listing the television programs in the list for navigating to a next television program in the list.

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44. (Previously Presented): One or more computer-readable media comprising computer-executable instructions to perform the method of claim 40.